

SPECIFICATIONS FOR FIBERGLASS CONDUIT

604-961643
1420394

1.0 DIMENSIONS

All conduit shall be manufactured in ID sizes. The wall thickness shall be nominal of .250".

Conduit diameters shall be fabricated per the following tolerance and out-of-roundness.

Nominal	Minimum	Outside	Maximum
Inside	Inside	Diameter	<u>Out-of-roundness</u>
<u>Diameter</u>	<u>Diameter</u>	<u>Nominal</u>	
2"	2.00"	2.50"	0.40"

2.0 SURFACE

Interior surface shall be clean, smooth, and free of abrasive surfaces. The exterior finish shall contain UV 9 absorber solution and pigmented concrete gray.

3.0 MECHANICAL CHARACTERISTICS

The ultimate tensile strength shall be > 11,000 psi. The ultimate elongation shall be no more than 2%. The representative weight for 2" conduit will be 1.245 lbs/ft and minimum impact resistance will be 150 ft/lbs. Conduit shall have a glass content of 65 to 70% with a water absorption rate of < 1%.

4.0 ELECTRICAL CHARACTERISTICS

Dielectric strength shall exceed 500 volts/mil with a dissipation factor of 0.5%.

5.0 TOXICITY

The conduit shall not contain any compounds that can release halogens, i.e. chlorine, bromine, fluorine and iodine in more than trace amounts when burning.

6.0 JOINING SYSTEM

The conduit shall be supplied with an integral wound bell on one end and a machined end spigot on the other end. A two component epoxy adhesive shall be supplied for joining the conduit together.

7.0 FITTINGS AND ACCESSORIES

All fittings, elbows and accessories shall be manufactured from the same process, using the same methods and chemicals as the pipe.

8.0 FIRE RESISTANCE

Conduit shall meet UL specification 1684.

Hanger support system for under bridge conduit

The hanger shall be a saddle type roller hanger of galvanized construction with a composite or insulated roller designed to allow 2" conduit to move freely with thermal expansion. It shall be suspended from a single 4" galvanized, all thread, 5/8" diameter rod with a chemical insert used to anchor rod in concrete.

If you have any further questions about these specifications please contact Steve Wilson at 334-261-3248